

Florida Energy Efficiency Code For Building Construction

EnergyGauge Summit® Fla/Com-2010, Effective Date: March 15, 2012 – Form 506-2010
Prescriptive Compliance for Renovations, Occupancy Change, etc.

PROJECT SUMMARY

Short Desc: Animal Clinic

Owner:

Address1: 2134 SW 67 Avenue

Address2:

Type: Healthcare-Clinic

Jurisdiction: MIAMI, MIAMI-DADE COUNTY, FL (232400)

Conditioned Area: 1600 SF

No of Stories: 1

Permit No: 0

Description: Dog Treatment

City: Miami

State: FL

Zip: 33155

Class: Renovation to existing building

Conditioned & UnConditioned Area: 1600 SF

Area entered from Plans 1600 SF

Max Tonnage 5.9

If different, write in: _____

Emp
12-13-12

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Compliance Summary			
Component	Design	Criteria	Result
RENOVATED ENVELOPE PRESCRIPTIVE			PASSES
LIGHTING POWER	800.0	960.0	PASSES
LIGHTING CONTROLS			PASSES
EXTERNAL LIGHTING			None Entered
HVAC SYSTEM			PASSES
PLANT			None Entered
WATER HEATING SYSTEMS			Not Checked
PIPING SYSTEMS			None Entered
Met all required compliance from Check List?			Yes/No/NA
<p>IMPORTANT MESSAGE</p> <p>Info 5009 -- -- -- An input report of this design building must be submitted along with this Compliance Report</p>			

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CERTIFICATIONS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code

Prepared By: _____

Building Official: _____

Date: _____

Date: _____

I certify that this building is in compliance with the FLorida Energy Efficiency Code

Owner Agent: _____

Date: _____

If Required by Florida law, I hereby certify (*) that the system design is in compliance with the Florida Energy Efficiency Code

Architect: _____

Reg No: _____

Electrical Designer: _____

Reg No: _____

Lighting Designer: _____

Reg No: _____

Mechanical Designer: _____

Reg No: _____

Plumbing Designer: _____

Reg No: _____

(*) Signature is required where Florida Law requires design to be performed by registered design professionals.

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Prescriptive Envelope Compliance

Item	Zone	Description	Design	Criteria Meet Req.
Glass	Animal CL	Percent glass Max allowed	1.754	50.000 Yes
Animal CL	Animal CL	Exterior Wall: UValue Max allowed	.027	0.052 Yes
Animal CL	Animal CL	Exterior Wall: Absorptance Max allowed	.220	0.300 Yes
Animal CL	Animal CL	Exterior Window: SHGC Max allowed	.250	0.250 Yes
Animal CL	Animal CL	Exterior Window: UValue Max allowed	.450	0.450 Yes
Animal CL	Animal CL	Exterior Wall: UValue Max allowed	.027	0.052 Yes
Animal CL	Animal CL	Exterior Wall: Absorptance Max allowed	.220	0.300 Yes
Animal CL	Animal CL	Exterior Door: UValue Max allowed	.350	1.450 Yes
Animal CL	Animal CL	Exterior Wall: UValue Max allowed	.027	0.052 Yes
Animal CL	Animal CL	Exterior Wall: Absorptance Max allowed	.220	0.300 Yes
Skylights	Animal CL	Percent Skylight Max allowed	.000	5.000 Yes
Animal CL	Animal CL	Exterior Roof UValue Max allowed	.022	0.033 Yes
Animal CL	Animal CL	Exterior Roof: Absorptance Max allowed	.100	0.220 Yes

Meets Shell Envelope Requirements -- PASSES

External Lighting Compliance

Description	Category	Tradable?	Allowance (W/Unit)	Area or Length ELPA or No. of Units (Sqft or ft)	CLP (W)
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None

Project: Animal Clinic
Title: Dog Treatment
Type: Healthcare-Clinic
(WEA File: FL_MIAMI_INTL_AP.tm3)

Lighting Power Compliance

Space	Ashrae ID	Description	Area (sq.ft)	Height (ft)	No. of Spaces	Design (W)	Effective (W)	Allowance (W)
Animal CL	10,008	Nursery (Hospital)	1,600	8.0	1	800	800	960

Design : 800 (W)

Effective: 800 (W)

Allowance: 960.000 (W)

PASSES

Passing requires Design to be at most 100% of Criteria

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Project: Animal Clinic Title: Dog Treatment Type: Healthcare-Clinic (WEA File: FL_MIAMI_INTL_AP.tm3)						
Lighting Controls Compliance						
Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compliance
Animal CL	10,008	Nursery (Hospital)	1,600	2	1	PASSES
PASSES						

Project: Animal Clinic Title: Dog Treatment Type: Healthcare-Clinic (WEA File: FL_MIAMI_INTL_AP.tm3)							
System Report Compliance							
Animal CL Treatment		Condensing Units				No. of Units 1	
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Condensing Units Air Cooled		13.00	10.10	1.00	11.20	PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0.80	0.82			PASSES
PASSES							

Plant Compliance								
Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category	Compliance
None								

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Project: Animal Clinic
 Title: Dog Treatment
 Type: Healthcare-Clinic
 (WEA File: FL_MIAMI_INTL_AP.fm3)

Water Heater Compliance

Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Compliance
Water Heater 1	Electric water heater	Unknown	0.93				Not Checked
							Not Checked

Piping System Compliance

Category	Pipe Dia [inches]	Is Runout?	Operating Temp [F]	Ins Cond [Btu-in/hr .SF.F]	Ins Thick [in]	Req Ins Thick [in]	Compliance
							None

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Other Required Compliance

Category	Section	Requirement (write N/A in box if not applicable)	Check
Report	506.4.2	Input Report Print-Out from EnergyGauge FlaCom attached	<input checked="" type="checkbox"/>
Operations Manual	303.3.1, 503.2.9.3, 505.7.4.2	Operations manual provided to owner	<input checked="" type="checkbox"/>
Windows & Doors	502.3.2	Glazed swinging entrance & revolving doors: max. 1.0 cfm/ft ² ; all other products: 0.3 cfm/ft ²	<input checked="" type="checkbox"/>
Joints/Cracks	502.3.3	To be caulked, gasketed, weather-stripped or otherwise sealed	<input checked="" type="checkbox"/>
Dropped Ceiling Cavity	502.3	Vented: seal & insulated ceiling. Unvented seal & insulate roof & side walls	<input checked="" type="checkbox"/>
HVAC Efficiency	503.2.3	Minimum efficiencies: Tables 503.2.3(1)-(8)	<input checked="" type="checkbox"/>
HVAC Controls	503.2.4	Zone controls prevent reheat (exceptions); separate thermostatic control per zone;	<input checked="" type="checkbox"/>
Ventilation	503.2.5	Outdoor air supply & exhaust ducts shall have dampers that automatically shut when systems or spaces served are not in use. Exhaust air energy recovery required for cooling systems (Exceptions).	<input checked="" type="checkbox"/>
ADS	503.2.7.5	Duct sizing and Design have been performed	<input checked="" type="checkbox"/>
HVAC Ducts	503.2.7	Air ducts, fittings, mechanical equipment & plenum chambers shall be mechanically attached, sealed, insulated & installed per Table 503.2.7.2. Fan power limitations.	<input checked="" type="checkbox"/>
Balancing	503.2.9.1	HVAC distribution system(s) tested & balanced. Report in construction documents.	<input checked="" type="checkbox"/>
Piping Insulation	503.2.8	HAC and service hot water. In accordance with Table 503.2.8.	<input checked="" type="checkbox"/>
Water Heaters	504	Performance requirements in accordance with Table 504.2. Heat trap required.	<input checked="" type="checkbox"/>
Swimming Pools	504.7	Vapor-retardant or liquid cover or other means proven to reduce heat loss on heated pools; Time switch (exceptions); readily accessible on/off switch.	<input checked="" type="checkbox"/>
Motors	505.7.5	Motor efficiency criteria have been met	<input checked="" type="checkbox"/>
Lighting Controls	505.2, 502.3	Automatic control required for interior lighting in buildings >5,000 s.f.; Space control; Exterior photo sensor; Tandom wiring with 1 or 3 linear fluorescent lamps>30W	<input checked="" type="checkbox"/>

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